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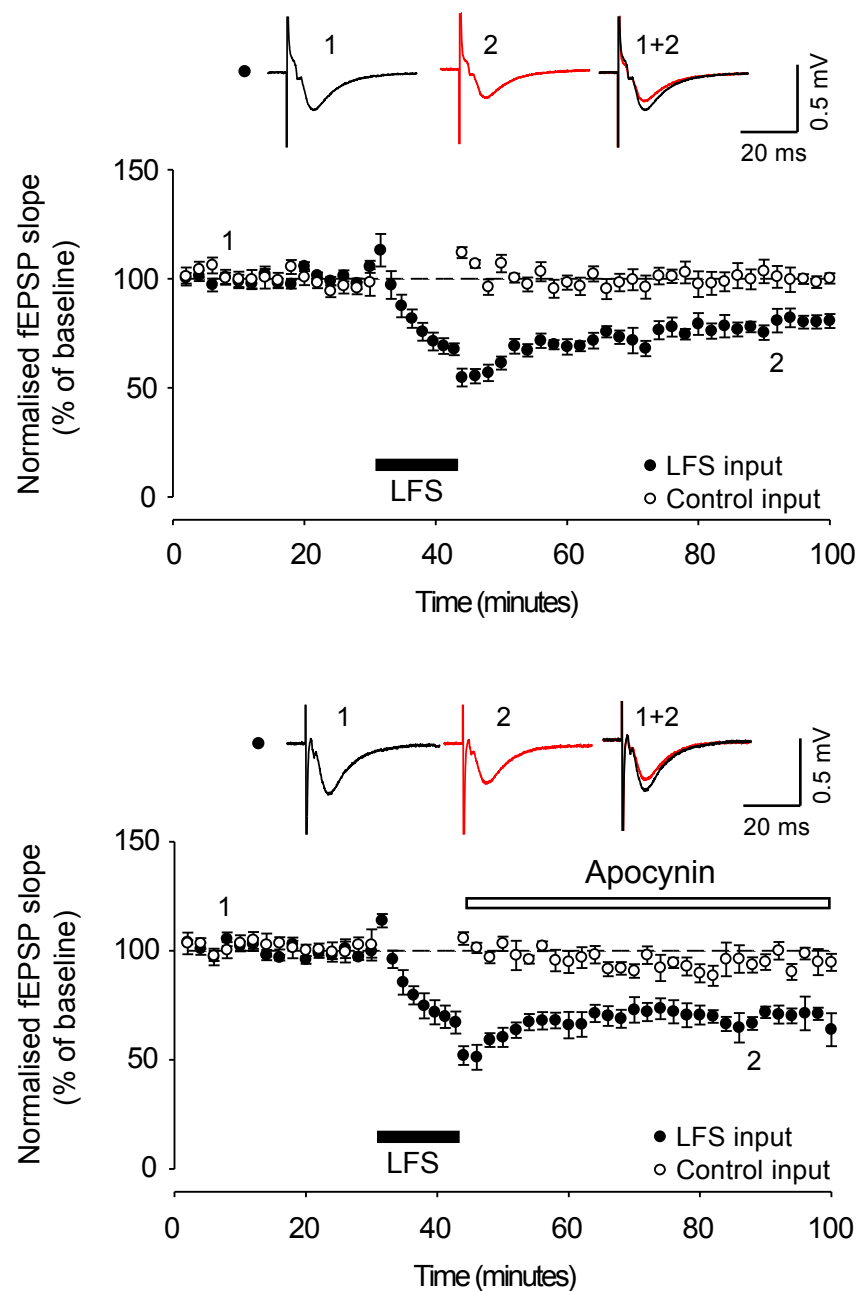
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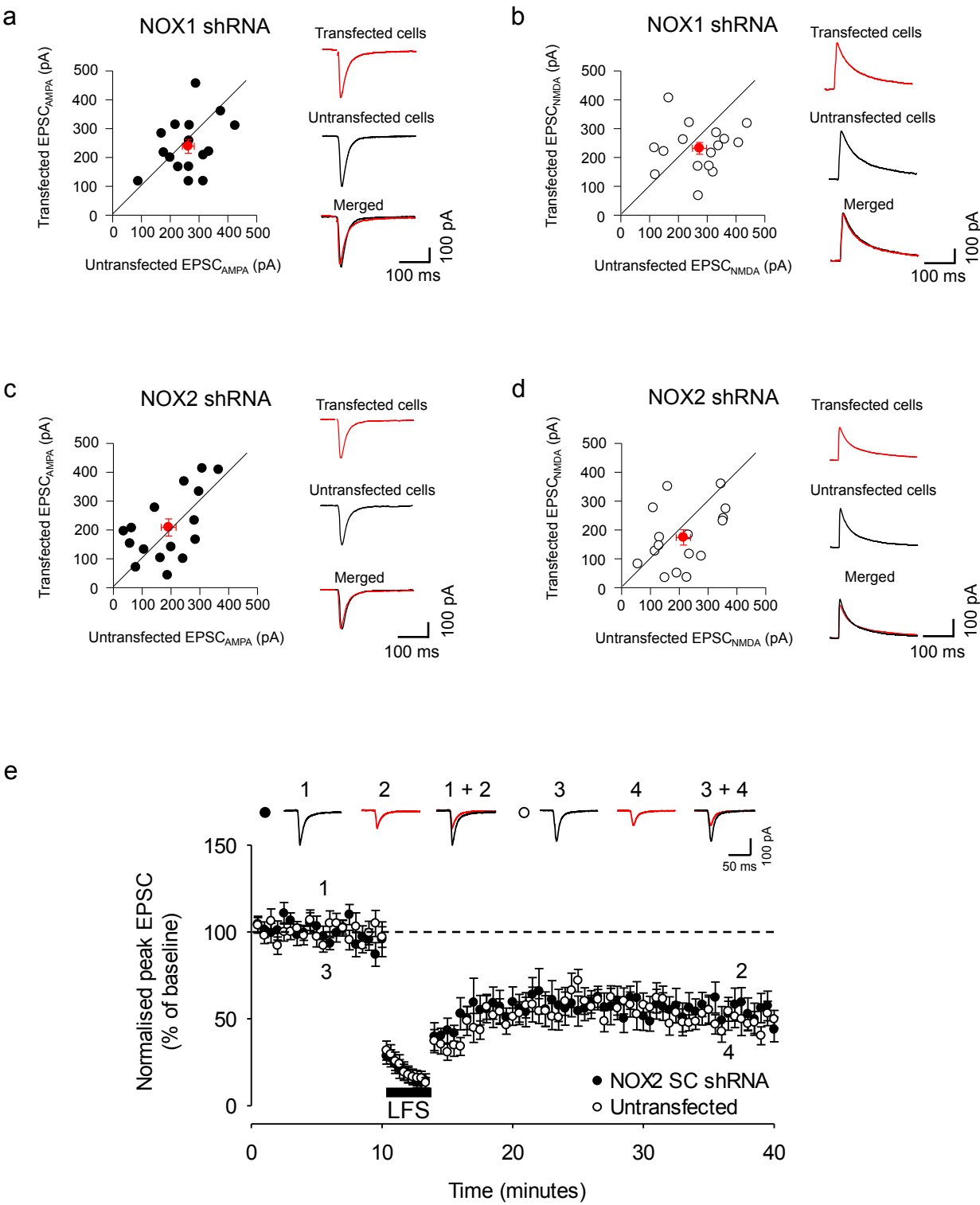
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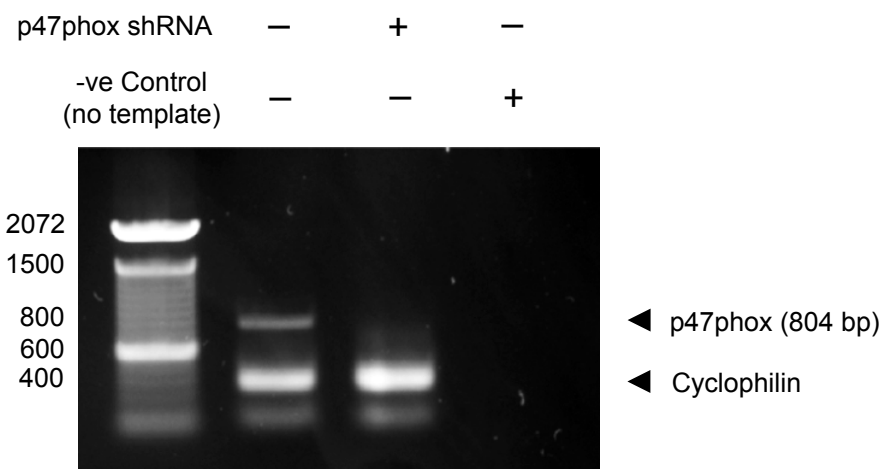
Supplementary Figure 1



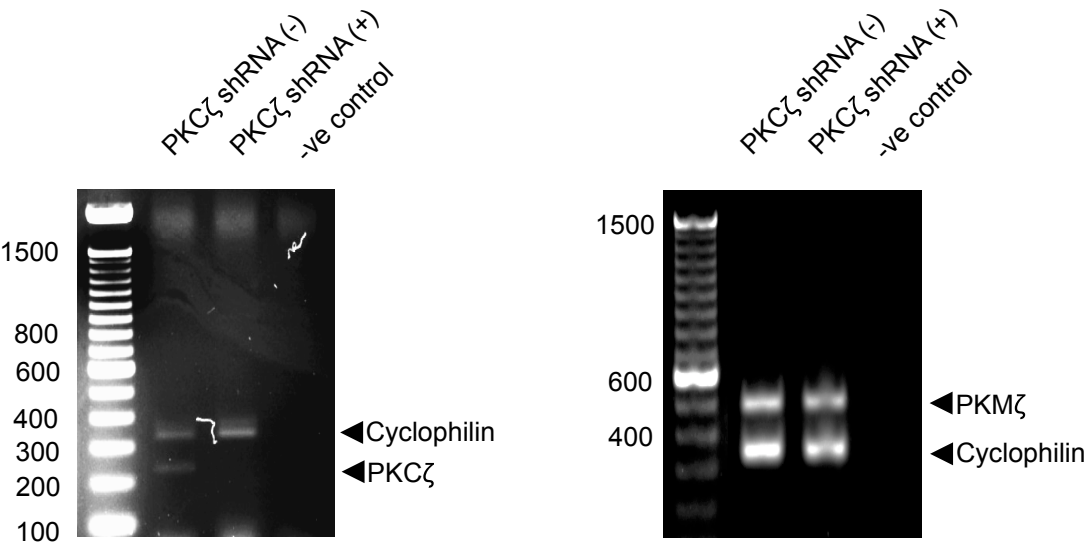
Supplementary Figure 2



Supplementary Figure 3



Supplementary Figure 4



## Supplementary Figure Legends

**Supplementary Fig. 1.** Bath perfusion of apocynin after LTD induction has no effect on LTD expression (control:  $n = 7$ ; apocynin:  $n = 6$ ).

**Supplementary Fig. 2.** Transfection of NOX1 shRNA has no effect on EPSC<sub>AMPA</sub> (a) and EPSC<sub>NMDA</sub> (b) compared to neighbouring untransfected neurons ( $n = 16$  pairs). Transfection of NOX2 shRNA has no effect on EPSC<sub>AMPA</sub> (c) and EPSC<sub>NMDA</sub> (d) compared to neighbouring untransfected neurons ( $n = 16$  pairs). Individual data points represent individual pairs of neurons. Red circles represent mean  $\pm$  SEM. Representative single traces are provided inset. (e) LTD is induced in neurons transfected with scrambled NOX2 shRNA ( $n = 10$ ) and untransfected cells ( $n = 10$ ).

**Supplementary Fig. 3.** Single cell PCR assay demonstrating efficient knockdown p47Phox shRNA.

**Supplementary Fig. 4.** Single cell PCR assays demonstrate efficient and selective knockdown of PKC $\zeta$  (left) with PKC $\zeta$  shRNA, and this has no effect on PKM $\zeta$  (right).